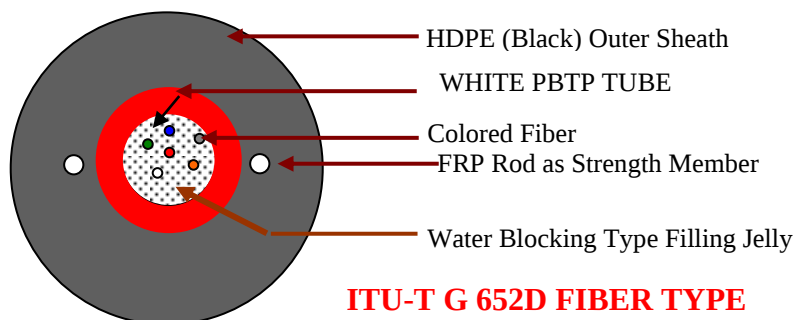


Technical Data Sheet For 4F ~ 12F Optic Fiber Cable



A. Cable Construction		O.F. Cable		
Sr.	Parameters	4F	6F	12F
1.	Loose tube filling	Water Resist Thixotropic Jelly		
2.	Strength Member	FRP Rod as strength member Embedded in Sheath		
3.	Outer Sheathing	HDPE Black		
4.	Cable Diameter in mm.	6.3	6.5	6.8
5.	Weight of cable (Kg/Km)	30 ± 5%	35 ± 5%	35 ± 5%

B	FIBER IDENTIFICATION	Blue, Orange Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink & Natural as per fiber count.
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C	MECHANICAL CHARACTERISTICS	
Sr	Parameters	Specified Values
1.	Maximum safe pulling Tension	1000 N
2.	Maximum operating load	800 N
3.	Minimum Crush Resistance	500 N
4.	Maximum Bending radius for installation and long term	20 D, D = Cable diameter.
5.	Storage, Installation & Operating Temperature Range	-20° to +70°C

D	PACKING	3Km ± 10 %
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E	IDENTIFICATION OF CABLE :	Unicore Digital UC OF Cable UT SM 2011 4F/6F/12F 0001 0001M, ID 00001 Any other information as required by Customer.
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F	APPLICATIONS	ADVANTAGES
1.	Pulling on duct systems	1. Light Weight Cable, Smaller Diameter
2.	Laying in concrete system	2. Large Data Carrying Capacity
3.	Laying on cable racks	3. Compatible for all type of Jointing kits, Cable accessories.

G.	FIBER CHARACTERISTICS	SINGLEMODE – Geometrical Parameters
Sr.	Parameters	Specified values
1.	Type of fiber	Single Mode step index optical fiber (ITU-T G 652D)
2.	Mode Field Diameter @ 1310 nm	$9.3 \pm 0.5 \mu\text{m}$
	Mode Field Diameter @ 1550 nm	$10.5 \pm 1.0 \mu\text{m}$
3.	Core – Clad Concentricity Error	$< 0.8 \mu\text{m}$
4.	Cladding Diameter	$125 \pm 1 \mu\text{m}$
5.	Cladding Non Circularity	$< 1 \%$
6.	Coating Diameter	$245 \pm 10 \mu\text{m}$
		Optical Characteristics
7.	Attenuation @ 1310 nm	0.38 dB/Km (Max.)
8.	Attenuation @ 1550 nm	0.25 dB/Km (Max.)
9.	Dispersion @ Range 1285nm – 1330nm @ Range 1270nm – 1340nm @ 1500nm	$\leq 3.5 \text{ ps / (nm.km)}$ $\leq 5.3 \text{ ps / (nm.km)}$ $\leq 18.0 \text{ ps / (nm.km)}$
10.	Cut – off Wavelength	$< 1320 \text{ nm}$
11.	Polarization Mode Dispersion (PMD) @ 1310 nm - 1550 nm	$< 0.3 \text{ ps / } \sqrt{\text{km}}$
12.	Zero Dispersion Slope	$\leq 0.092 \text{ ps / (nm}^2 \cdot \text{km)}$
13.	Zero Dispersion wavelength Range	1300 – 1324 nm